

Claims

I claim:

- 5 1. A composition, comprising a silver thiosulfate ion complex bound to an anion exchange resin.
- 10 2. The composition of Claim 1, wherein said resin comprises at least one quaternary amine attached to a polymer.
3. The composition of Claim 1, wherein said polymer comprises polystyrene.
- 15 4. The composition of Claim 3, wherein said polystyrene is in the form of beads.
5. The composition of Claim 4, wherein said beads are less than approximately 0.8 mm in average diameter.
- 20 6. The composition of Claim 2, wherein said quaternary amine is selected from the group consisting of triethylamine and triethylethanolamine.
7. The composition of Claim 1, wherein said resin is cholestyramine.
- 25 8. A wound dressing impregnated with the composition of Claim 1.
9. The wound dressing of Claim 8, wherein said wound dressing is selected from the group consisting of gauzes, compresses, hydrocolloids and xerogels.
- 30 10. An apparatus comprising a medical device impregnated with the composition of Claim 1.

11. The apparatus of Claim 10, wherein said medical device is configured for placement inside a patient.
- 5 12. The apparatus of Claim 11, wherein said medical device is selected from the group consisting of implants, sutures and other materials left in a body cavity for a period of time.
13. The apparatus of Claim 11, wherein said medical device is a catheter.
- 10 14. The apparatus of Claim 13, wherein said catheter is a urinary catheter.
15. The apparatus of Claim 11, wherein said medical device is selected from the group consisting of an ostomy appliance and an incontinent device.
- 15 16. A method, comprising:
- a) providing;
- i) a patient exhibiting symptoms of infection; and
- ii) the composition of Claim 1; and
- b) administering said composition to said patient under conditions such that at
- 20 least one symptom of said infection is reduced.
17. A method, comprising:
- a) providing:
- i) a patient with a wound; and
- 25 ii) the composition of Claim 1; and
- b) delivering said composition to said wound.

18. A method, comprising:
- a) providing;
 - i) a patient at risk for an infection; and
 - ii) the composition of Claim 1; and
 - b) administering said composition to said patient.
19. A method of attaching silver thiosulfate ion complexes on a resin comprising:
- a) providing;
 - i) an anion exchange resin, and
 - ii) an aqueous solution of silver thiosulfate ion complexes; and
 - b) introducing said resin to said solution under conditions such that at least a portion of said complexes attaches to said resin to form a partially loaded resinate.
20. The method of Claim 19, wherein said resin comprises at least one quaternary amine attached to a polymer.
21. The method of Claim 20, wherein said polymer comprises polystyrene.
22. The method of Claim 21, wherein said polystyrene is in the form of beads.
23. The method of Claim 22, wherein said beads are less than approximately 0.8 mm in average diameter.
24. The method of Claim 20, wherein said quaternary amine is selected from the group consisting of triethylamine and triethylethanolamine.
25. The method of Claim 19, wherein said resin is cholestyramine.

26. The method of Claim 19, wherein said silver thiosulfate ion complexes comprise a thiosulfate ion-to-silver ion molar ratio of less than 3:1.

27. The method of Claim 26, wherein said molar ratio is at least 1:1.

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28. The method of Claim 26, wherein said molar ratio is at least 1.3:1.